

WEST Search History

Hide Items

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DATE: Saturday, January 10, 2004

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L20	L19	0
		<i>DB=USPT,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L19	((sen\$ or recommend\$) same (proximity with (product or item)))and wire\$	16
		<i>DB=EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L18	((sen\$ or recommend\$) same (proximity with (product or item)))and database and wire\$	0
		<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>	
<input type="checkbox"/>	L17	l15 not L16	3
<input type="checkbox"/>	L16	L15 and profile	2
<input type="checkbox"/>	L15	L14 and wire\$	5
<input type="checkbox"/>	L14	L3 and (select\$ with categor\$ with (supplier or vendor or seller))	11
<input type="checkbox"/>	L13	L3 and (select\$ with (categor\$ or servic\$) with (supplier or vendor or seller))	49
<input type="checkbox"/>	L12	L3 and ((select\$ or pick\$ or choos\$) with (categor\$ or servic\$) with (supplier or vendor or seller))	54
<input type="checkbox"/>	L11	L3 and ((select\$ or pick\$ or choos\$) with (categor\$ or kind\$ or type or servic\$) with (suppl\$ or vendor or seller))	97
<input type="checkbox"/>	L10	L9 and database and wire\$	4
<input type="checkbox"/>	L9	L8 and ((shop\$ or purchas\$ or buy\$) with profil\$)	7
<input type="checkbox"/>	L8	L3 and (recommend\$ with (product or item) with profil\$)	13
<input type="checkbox"/>	L7	L6 and (radio with frequenc\$)	1
<input type="checkbox"/>	L6	4789983.pn.	1
<input type="checkbox"/>	L5	L3 and (sens\$ with proximity with (product or item))	1
<input type="checkbox"/>	L4	L3 and (recommend\$ same (proximity with (product or item)))	0
<input type="checkbox"/>	L3	=20001024	1025
<input type="checkbox"/>	L2	L1 and wire\$ and profil\$	1
<input type="checkbox"/>	L1	=20001024	7

END OF SEARCH HISTORY

Refine Search

Search Results -

Terms	Documents
((("wire-less" or (wire adj less) or wireless) adj communicat\$) and (access\$ same node) and @pd<=19871228	0

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Wednesday, January 07, 2004 [Printable Copy](#) [Create Case](#)

<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
<u>L6</u>	((("wire-less" or (wire adj less) or wireless) adj communicat\$) and (access\$ same node) and @pd<=19871228	0	<u>L6</u>
<u>L5</u>	((("wire-less" or (wire adj less) or wireless) adj communicat\$) and (access\$ with node) and @pd<=19871228	0	<u>L5</u>
<i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>			
<u>L4</u>	L3 and (venue or public\$ or mall or shop\$)	0	<u>L4</u>
<u>L3</u>	L2 and radio	1	<u>L3</u>
<u>L2</u>	((("wire-less" or (wire adj less) or wireless) adj communicat\$) and (access\$ with node) and @ad<=19871228	1	<u>L2</u>
<u>L1</u>	((("wire-less" or (wire adj less) or wireless) adj communicat\$) and (lan or (local adj area adj network\$)) and (access\$ same node) and @ad<=19871228	1	<u>L1</u>

END OF SEARCH HISTORY

First Hit Fwd Refs
End of Result Set



Generate Collection

Print

L1: Entry 1 of 1

File: USPT

Dec 6, 1988

US-PAT-NO: 4789983

DOCUMENT-IDENTIFIER: US 4789983 A

TITLE: Wireless network for wideband indoor communications

DATE-ISSUED: December 6, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Acampora; Anthony	Freehold	NJ		
Winters; Jack H.	Middletown	NJ		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE	CODE
American Telephone and Telegraph Company, AT&T Bell Laboratories	Murray Hill	NJ			02	

APPL-NO: 07/ 022255 [PALM]

DATE FILED: March 5, 1987

INT-CL: [04] H04J 3/14

US-CL-ISSUED: 370/96; 370/84

US-CL-CURRENT: 370/349; 370/333, 370/346

FIELD-OF-SEARCH: 370/94, 370/95, 370/96, 370/109, 370/29, 370/13.1, 370/17, 370/97, 370/84, 379/58, 379/61, 379/63, 371/5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>4251865</u>	February 1981	Moore et al.	370/96
<input type="checkbox"/>	<u>4301533</u>	November 1981	Acampora et al.	370/104
<input type="checkbox"/>	<u>4309764</u>	January 1982	Acampora	370/83
<input type="checkbox"/>	<u>4398289</u>	August 1983	Schoute	370/94
<input type="checkbox"/>	<u>4606044</u>	August 1986	Kudo	370/84
<input type="checkbox"/>	<u>4692919</u>	September 1987	West, Jr.	370/96

4742514

May 1988

Goode et al.

370/97

OTHER PUBLICATIONS

Komura et al., Japan Telecomm. Rev., Quarterly, vol. 15, No. 4, 1973, pp. 257-261.
Acampora, BSTJ, vol. 58, No. 9, Nov. 1979, pp. 2097-2111.
Gfeller, IBM Discl. Bul, vol. 24, No. 8, Jan. 1982, pp. 4043-4046.
Acampora, IEEE Jnl on SAC, vol. SAC-1, Jan. 1983, pp. 133-142.
Acampora et al., IEEE Communications Magazine, vol. 22, No. 8, Aug. 1984, pp. 12-21.
Mednick, Globecom '85, New Orleans, La., vol. 1, pp. 15.2.1 to 15.2.6.
Yen et al., Globecom '85, New Orleans, La., vol. 3, pp. 39.1.1 to 39.1.4.

ART-UNIT: 263

PRIMARY-EXAMINER: Olms; Douglas W.

ASSISTANT-EXAMINER: Marcelo; Melvin

ATTY-AGENT-FIRM: Pfeifle; Erwin W.

ABSTRACT:

The present invention relates to a wideband communication network using wireless radio transmissions either on a stand-alone basis or to supplement a hard-wired network. The exemplary network comprises (a) a plurality of transceivers associated with separate users of the network; (b) optionally at least one concentrator associated with certain separate subgroups of wireless and possibly hard-wired transceivers for providing duplex operation; and (c) a central node (i) capable of providing both duplex communications directly via a radio channel using radio links with certain subgroups of the transceivers and via a hard-wired connection with each optional concentrator, and (ii) for polling the needs of all transceivers and directing all packets of information from active transceivers through the central node and to the destined transceivers during each frame period. The network also preferably includes diversity and resource sharing techniques to provide added protection against channel impairments on an as-needed basis.

10 Claims, 2 Drawing figures

First Hit Fwd Refs
End of Result Set



L1: Entry 1 of 1

File: USPT

Dec 6, 1988

DOCUMENT-IDENTIFIER: US 4789983 A
TITLE: Wireless network for wideband indoor communications

Application Filing Date (1):
19870305

Brief Summary Text (4):

Local Area Networks (LANs) have included many different architectures such as the bus, loop, ring, star, tree, etc. One such LAN is disclosed in the article "A New Local Area Network Architecture Using A Centralized Bus" by A. Acampora et al. in IEEE Communications Magazine, Vol. 22, No. 8, August 1984, at pages 12-21. There, a centralized bus is used with all user devices being hard-wired to a central node as shown in FIGS. 1-3 of the article.

Brief Summary Text (5):

Indoor wireless communications networks have also been developed over the years. In the article "Cordless Telephone System" by M. Komura et al., published in the Japanese Telecommunications Review, Vol. 15, No. 4, 1973, at pages 257-261, a cordless radio telephone system is disclosed which permits telephones to communicate via radio to a localized antenna which is directly connected to a base station. Another technique for wireless indoor communication is disclosed by F. Gfeller in the IBM Technical Disclosure Bulletin, Vol. 24, No. 8, January 1982, at pages 4043-4046 wherein an infrared microbroadcasting network for in-house data communication is disclosed. There, a host controller is directly connected to a plurality of spaced-apart transponders for transmitting 2-way communications via infrared signals with the various stations forming the in-house system.

Brief Summary Text (6):

More recently, an office information network was disclosed in Globecom '85, Vol. 1, Dec. 2-5, 1985, New Orleans, La. at pages 15.2.1-15.2.6 wherein a slotted-ring access protocol and a dynamic bandwidth allocation scheme offering preferential service to high-priority traffic is provided. There, a dual optical fiber ring, transmitting in opposite directions, propagates the communication signals to various nodes along the fibers. Connections between the network nodes and local facilities or servers are copper pairs or, where appropriate, wireless drops.

Brief Summary Text (11):

It is also an aspect of the present invention to provide a wideband indoor communications network as described above where (1) diversitly antennas can be used at the concentrators and central node, and one or more antennas can be used at each transceiver, and (2) access to the radio channel used by all wireless transceivers is performed by a modified polling scheme which permits resource sharing to provide added protection against channel impairments on an asneeded basis.

Detailed Description Text (2):

FIG. 1 illustrates an exemplary system topology which is functionally that of a star Local Area Network (LAN) comprising a central node 30, remote concentrators 20 and 21, and a plurality of user devices 10-19. Each user device 10-19 is associated

with a separate user of the network and can communicate with central node 30 (1) via a hard-wired connection 26, as shown for the indirect connections between user devices 10-13 and concentrators 20 and 21; or (2) via a wireless link as shown for (a) the channel comprising links 27 between a subgroup of user devices 18-19 and central node 30, or (b) the indirect channel comprising links 28 between a subgroup of users 14-15 and a subgroup of users 16-17 and concentrators 20 and 21, respectively. It is to be understood that user devices 10-19 can each be coupled to a separate user terminal (not shown) such as, for example, a data device, printer, personal computer, host computer, telephone, etc.

Detailed Description Text (6):

The receiving concentrator demultiplexes all arriving packets from central node 30 for distribution via bus 29.sub.b to the appropriate UIM and transmission to the destined user device. Logical channel numbers are preferably assigned for the entire network at the beginning of a predetermined time period of communications by call processor 35 in central node 30. Additional device configurations and operational details are described in the article "A New Local Area Network Architecture Using A Centralized Bus" by Acampora et al. in IEEE Communications Magazine, Vol. 22, No. 8, August 1984, at pages 12-21.

Detailed Description Text (7):

Radio links may be introduced, as shown in FIG. 1, via either a wireless link between a UIM 23 in either one of concentrators 20 or 21 as shown for link 28, or a wireless link directly to a NIU 33 in central node 30 as shown for link 27. For link 27, the high-speed links from trunk modules 25 in concentrators 20 and 21 to central node 30 have been augmented by the inclusion of an NIU 33 in central node 30 which becomes a radio base station providing a high-speed channel to collect traffic from a subgroup of radio user devices 18-19 located throughout the building. It is to be understood that the term channel hereinafter implies full duplex operation, with separate bands used to transmit to and receive from NIU 33. This radio channel operates at a rate less than or equal to that of the central node's contention buses 36 and 37 and each of the high-speed links between trunk modules 25 and NIU's 32 and 34. With an appropriate access protocol, the radio channel may be shared among all radio users 18-19 and appear, to central node 30, as a virtual concentrator. Fixed length packets arriving over links 27 contend for the nodal bus 36 along with packets arriving via high-speed buses at NIUs 32 and 34 from trunk modules 25. The packets arriving from the wired links 26 may be rerouted by central node 30 to a radio link 27, and vice-versa, according to a destination address included in each packet.

Detailed Description Text (8):

A wireless link 28 establishes a communication path from each user of a subgroup of users, 14-15 or 16-17, to an associated UIM 23 in one of remote concentrators 20 or 21. Although multiple paths are established within a subgroup of users associated with a UIM 23 or NIU 33, these links time-share a single radio channel. More particularly, at any moment, only one radio user of a subgroup of users may access the radio channel. It should be noted that there is no need to provide an aggregate data rate over all radio links 27 or 28 in excess of the transmission speed of central node 30 since all packets must be routed through central node 30. Therefore, it is pointless to reuse the radio channel among user subgroups, as this increased capacity could not be used. Thus, by sharing a single channel, operating at the speed of central node 30, among all radio users, each user can potentially access the full system bandwidth, and interference among clusters caused by simultaneous use of the channel by users in different clusters is avoided. From the perspective of central node 30, a radio link 28 established from each concentrator 20 or 21 to each of its subgroups of radio users appears as another wired port (UIM 22) on the concentrator.

Detailed Description Text (9):

Regarding the radio or wireless links only, each of the UIMs 23 or NIU 33 are

preferably equipped with multiple antennas for diversity to protect against multipath fading, and each user device 14-19 is preferably equipped with only a single antenna, although multiple antennas could be used. The combination of limited diversity at the concentrators 20 and 21, and central node 30, along with resource sharing can be used to provide arbitrarily high availability. No direct communication is permitted among users, since all users may communicate only with concentrators 20 or 21 or central node 30. It should be understood that common media access techniques, such as Carrier Sense Multiple Access (CSMA), are inappropriate in the radio environment because free space path loss and multipath fading result in too large a variation of signal strength to insure that all channel usage can be detected. To keep the wireless user devices 14-19 inexpensive, sophisticated timing requirements should be avoided. Finally, because of problems with delay spread, it is desired that the throughput of the system not be significantly reduced by a media access technique, and separate receive and transmit channels must be provided to allow full duplex operation.

Detailed Description Text (11):

The present exemplary polling technique for use with the radio channel associated with the wireless UD's 14-19 is shown in FIG. 2. There, time is divided into a sequence of fixed length intervals called frames, as shown at the top of FIG. 2. At the start of each frame a polling interval 40 appears, followed by multiple intervals for transmission of continuous (voice) traffic packets 41, and bursty (data) traffic packets 42. The length of the continuous traffic intervals 41 depends on the amount of continuous traffic. This continuous traffic is transmitted periodically, at least once per frame period, with the time interval between continuous traffic intervals used for bursty traffic. Transmission of one fixed length packet per continuous traffic interval constitutes some standard grade service, e.g., 64 kbps. Continuous traffic UD's may request multiples of this basic rate by accessing multiple time slots per continuous traffic interval. The polling sequence is shown at the bottom two lines of FIG. 2 for transmissions from and to central node 30.

CLAIMS:

2. A wideband packet communication network according to claim 1 wherein the receiving and retransmitting means comprises:

a high-speed bus for propagating packets of information from the plurality of transmitters on a time division multiplexed basis; and

a plurality of network interface units (NIUs), each NIU being associated with a separate subgroup of one or more of the plurality of transmitters, and connected to the transmitters of the separate subgroup via a wireless communication link or separate hard-wired connections for receiving the packets of information from the associated subgroup of transmitters and transmitting each packet over the high-speed bus during a free time slot period to the NIU associated with a user destined to receive the packet of information.

SEARCH NOTES

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 6. Document ID: WO 2003017698 A1, US 20030036375 A1
-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 7. Document ID: US 20030008662 A1
-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 8. Document ID: JP 2003060653 A, US 20020191572 A1
-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 9. Document ID: JP 2002359863 A
-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 10. Document ID: WO 2002101625 A1, US 20020188551 A1
-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Des
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☐ 11. Document ID: CA 2388966 A1, US 20020188464 A1

L2: Entry 11 of 22

File: DWPI

Dec 6, 2002

DERWENT-ACC-NO: 2003-266692

DERWENT-WEEK: 200326

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TITLE: Network based survey conduction and marketing method involves offering incentives to encourage individuals for accessing web sites after distributing card including contact information and associated unique event ID

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. D
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☐ 12. Document ID: US 20020167916 A1

L2: Entry 12 of 22

File: DWPI

Nov 14, 2002

DERWENT-ACC-NO: 2003-199249

DERWENT-WEEK: 200319

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TITLE: Wireless retail customer intranet provision method for retail facility, involves allowing PDA mounted on shopping carts to communicate mutually and to wirelessly exchange information with server through LAN

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. D
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☐ 13. Document ID: US 20020161658 A1

L2: Entry 13 of 22

File: DWPI

Oct 31, 2002

DERWENT-ACC-NO: 2003-156347

DERWENT-WEEK: 200315

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Shopping list creating method for online, retail store shopping, involves receiving product ID data such as UPC from merchants computer system memory through wireless barcode scanner

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. D
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☐ 14. Document ID: US 20020127969 A1

L2: Entry 14 of 22

File: DWPI

Sep 12, 2002

DERWENT-ACC-NO: 2003-090365

DERWENT-WEEK: 200308

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Wireless communication system has storage device to store content received from service provider and transmitter to transmit stored content to portable communication devices within respective transmission range

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 15. Document ID: US 20020098852 A1

L2: Entry 15 of 22

File: DWPI

Jul 25, 2002

DERWENT-ACC-NO: 2002-739843

DERWENT-WEEK: 200282

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TITLE: Location identification information provision method for mobile asset involves detecting presence of radio frequency energy less than predetermined threshold on specific channel

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 16. Document ID: JP 2002204240 A

L2: Entry 16 of 22

File: DWPI

Jul 19, 2002

DERWENT-ACC-NO: 2002-631278

DERWENT-WEEK: 200268

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TITLE: Wireless LAN system used in office, includes antenna having directivity, along specific zone connected to branch circuit of waveguide

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw D
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☐ 17. Document ID: KR 2002021565 A

L2: Entry 17 of 22

File: DWPI

Mar 21, 2002

DERWENT-ACC-NO: 2002-605800

DERWENT-WEEK: 200265

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TITLE: Electronic commerce method and system using communication networks

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 18. Document ID: US 20020016716 A1, KR 2001103865 A, CN 1323010 A, JP 2002007753 A

L2: Entry 18 of 22

File: DWPI

Feb 7, 2002

DERWENT-ACC-NO: 2002-215996

DERWENT-WEEK: 200231

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Product information providing method for Internet shopping mall server, involves transmitting multimedia document to simulate customer selected product operating principle, to customer

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 19. Document ID: KR 2002003716 A

L2: Entry 19 of 22

File: DWPI

Jan 15, 2002

DERWENT-ACC-NO: 2002-452649

DERWENT-WEEK: 200248

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Method for supplying post payment electronic commercial transaction using wireless terminal

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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☐ 20. Document ID: US 20010054012 A1, AU 200168374 A, WO 200197087 A1

L2: Entry 20 of 22

File: DWPI

Dec 20, 2001

DERWENT-ACC-NO: 2002-121446

DERWENT-WEEK: 200227

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Electronic transaction method in Internet, involves collecting, maintaining and processing all transaction information at client system

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. De
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wireless and lan and shopping	22

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Search Results - Record(s) 21 through 22 of 22 returned.

☐ 21. Document ID: US 20010039180 A1

L2: Entry 21 of 22

File: DWPI

Nov 8, 2001

DERWENT-ACC-NO: 2002-266845

DERWENT-WEEK: 200266

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Electronic information distribution system for residence, public buildings, rebroadcasts portion of broadcast signal received in base station using local area network, to television

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des
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☐ 22. Document ID: WO 200169803 A1, AU 200034641 A

L2: Entry 22 of 22

File: DWPI

Sep 20, 2001

DERWENT-ACC-NO: 2002-291635

DERWENT-WEEK: 200233

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Spread spectrum receiver module for wireless door opening system, has automatic gain control which filters spread spectrum signal

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des
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Search Results - Record(s) 1 through 10 of 22 returned.

☐ 1. Document ID: US 20030200152 A1

-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw. Des
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☐ 2. Document ID: JP 2003174457 A

-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw. Des
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☐ 3. Document ID: GB 2384719 A

-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw. Des
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☐ 4. Document ID: JP 2003150812 A, US 20030093369 A1

-: Invalid display element.

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMMC	Draw. Des
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☐ 5. Document ID: US 20030065805 A1

-: Invalid display element.

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 IBM Technical Disclosure Bulletins

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L2

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DATE: Sunday, January 11, 2004 [Printable Copy](#) [Create Case](#)

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side by side

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result set

DB=EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=OR

L2 wireless and lan and shopping

22

L2

DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR

L1 6314406.pn. or 6513015.pn. or 6324522.pn.

3

L1

END OF SEARCH HISTORY

[First Hit](#) [Fwd Refs](#)

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Generate Collection

Print

L5: Entry 1 of 1

File: USPT

Nov 6, 2001

US-PAT-NO: 6314406

DOCUMENT-IDENTIFIER: US 6314406 B1

**** See image for Certificate of Correction ****

TITLE: Customer information network

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
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APPL-NO: 08/ 921235 [\[PALM\]](#)

DATE FILED: August 29, 1997

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of copending U.S. patent application Ser. No. 08/668,343 filed Jun. 26, 1996; U.S. patent, application Ser. No. 08/744,109 filed Nov. 5, 1996; U.S. patent application Ser. No. 08/752,301 filed Nov. 19, 1996; and U.S. patent application Ser. No. 08/770,690 filed Dec. 19, 1996.

INT-CL: [07] [G60](#) [F 17/60](#)

US-CL-ISSUED: 705/14; 705/26, 705/27, 345/189

US-CL-CURRENT: [705/14](#); [705/26](#), [705/27](#)

FIELD-OF-SEARCH: 705/1, 705/14, 705/26, 235/383, 235/385, 235/375, 235/462, 340/825

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

Clear

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL



[3959624](#)

May 1976

Kaslow

<input type="checkbox"/>	<u>4323773</u>	April 1982	Carpenter	
<input type="checkbox"/>	<u>4345315</u>	August 1982	Cadotte et al.	
<input type="checkbox"/>	<u>4415065</u>	November 1983	Sandstedt	
<input type="checkbox"/>	<u>4703423</u>	October 1987	Bado et al.	
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<input type="checkbox"/>	<u>5640193</u>	June 1997	Wellner	348/7
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<input type="checkbox"/>	<u>5821512</u>	October 1998	O'Hagen et al.	235/383
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FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
2286567	February 1994	GB	
0840276	February 1996	JP	
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OTHER PUBLICATIONS

SSDS INTER ACT SYSTEMS: SSDS Inc., and Inter-Act Systems implement new "clipless" coupon program in major grocery stores in the Northeast; Business Editors, Sep. 1996.

ART-UNIT: 212

PRIMARY-EXAMINER: Trammell; James P.

ASSISTANT-EXAMINER: Retta; Yehdega

ATTY-AGENT-FIRM: Amin & Turocy, LLP

ABSTRACT:

A retail customer information system which includes: at least one data processing device including a data storage adapted for selectively storing marketing data in a plurality of data fields. The customer information system also includes a portable transaction computer having a graphical user interface adapted to selectively display icon data representing data stored in the data storage. The portable

transaction computer further including a random access memory; and a processor adapted to process instructions disposed in the random access memory. The retail customer information system further including a first data channel adapted for selectively communicating marketing data between the portable transaction computer and the data processing device.

30 Claims, 42 Drawing figures

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L7: Entry 1 of 1

File: USPT

Dec 6, 1988

DOCUMENT-IDENTIFIER: US 4789983 A

TITLE: Wireless network for wideband indoor communications

Detailed Description Text (10):

For the present network shown in FIG. 1, an exemplary modified polling technique is used, with central node 30 controlling the transmit token. Polling is performed by call processor 35 in central node 30; with the radio UIMs 23, located at concentrators 20 and 21, and NIU 33, located at central node 30, being slaved to processor 35 such that, at any point in time, only one UIM 23 or NIU 33 is allowed to transmit the token to its community of UDs. It should be understood that all of radio UDs 14-19 time share a single radio channel without frequency reuse.



L10: Entry 2 of 4

File: USPT

Jan 28, 2003

US-PAT-NO: 6513015

DOCUMENT-IDENTIFIER: US 6513015 B2

TITLE: System and method for customer recognition using wireless identification and visual data transmission

DATE-ISSUED: January 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ogasawara; Nobuo	San Diego	CA		

US-CL-CURRENT: 705/26; 340/643

ABSTRACT:

An electronic shopping system, providing for customer recognition using wireless identification and visual data transmission to point-of-sale terminals and other terminal types located in a commercial establishment. A customer's visual image is taken as a customer enters the establishment and, that customer's identification number is obtained from a customer identification card, if the customer possesses such a card. The visual image data is bundled with the customer's demographic profile data, transaction history data and the customer's current accrued store loyalty or incentive points into a customer data record. The customer data record is forwarded to point-of-sale terminals, store workstations, mobile terminals, or other I/O devices capable of displaying multiple customer records. The establishment staff is able to access each of the customer records in order to visually identify customers as they enter the establishment, without the customers needing to announce themselves or otherwise advertise their presence. A customer's visual image can also be acquired as a customer accesses a check-in kiosk terminal prior to beginning a shopping excursion. The acquired customer visual image is bundled with customer preference data and made available to the establishment's staff for visual recognition of each individual customer.

30 Claims, 7 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5